

77460.ST25.txt
SEQUENCE LISTING

<110> University of Georgia Research Foundation, Inc
The Ohio State University
Maier, Robert J
Gunn, John S

<120> Hydrogenase Deficient Bacterial Strains

<130> 31725-77460

<150> 60/549,306
<151> 2004-03-02

<150> 60/604,846
<151> 2004-08-26

<160> 21

<170> PatentIn version 3.3

<210> 1
<211> 51
<212> DNA
<213> Samonella typhimurium

<400> 1
tagtggtttg ggataaacgt tatgcaaaca gtgtaggctg gagctgcttc g
51

<210> 2
<211> 50
<212> DNA
<213> Samonella typhimurium

<400> 2
attgagacct ccgaatcgct gtcacgtac catatgaata tcctccttag
50

<210> 3
<211> 51
<212> DNA
<213> Samonella typhimurium

<400> 3
tcgtaacgga ataactataa aatgtgtgca gtgtaggctg gagctgcttc g
51

<210> 4
<211> 50
<212> DNA
<213> Samonella typhimurium

<400> 4
cccctaagac taatatccgc attacaaaac catatgaata tcctccttag
50

<210> 5
<211> 51
<212> DNA
<213> Samonella typhimurium

<400> 5

aaaggagaaa aaatacgcgt tatgaataac gtgtaggctg gagctgcttc g
51

<210> 6
<211> 50
<212> DNA
<213> Samonella typhimurium

<400> 6
atcgttcttt tccttaacgc ttagcgtacc catatgaata tcctccttag
50

<210> 7
<211> 232
<212> DNA
<213> Samonella typhimurium

<400> 7
gcgtcggcaa tgatcaaagc atcacgattc gccatcgc caagaagttc cattccccgcc
60

acaatacgc ccccgatggc ttcacggtc agcaaaatat tgccgacccc taagactaat
120

atccgcatta caaaactgca caaagcttca tgaaatcacg acgggttaag ccgtagagaag
180

tgatgagagt attatctcca gtcattttat agttattccg ttacgaagac ct
232

<210> 8
<211> 518
<212> DNA
<213> Samonella typhimurium

<400> 8
gtactcattg ccgacacatg cccagtaaag acgaaacagc agcgcgacag taaaaatata
60

cgccgtggta aaatggatca gtcgtatcca gcccatccaa aacataaagg tcgcttcacc
120

ttgaatcgat ggcagggggc ggccaatgaa atatcctgta acagccagga cgacaatgga
180

taacgccgtg atccagtgcc ataaacggac cggcgcttca tagatatagt acccctggct
240

ggttatttct ttgagatgca ttgagacctc cgaatcgctg tcacgtact gtttgcataa
300

cgtttatccc aaaccactat agttagtgtg ggcacatat gttgcatttc ttgtctttct
360

caacgtgttt tagtagcaat tatgtttcta attcgtaaca actgattaca tgtgtgctac
420

tcacattact caaaaacata aattaattta atgttattgg tgatgttgag taaatatagc
480

gttgatgatg catctcttaa tgttgataag aaaccgtg
518

<210> 9
<211> 333
<212> DNA
<213> Samonella typhimurium

<400> 9
cttatcggtta atccgatacg cttttttcac attatttctg gcggtatacg ccggtgcaaa
60
gtgaatcggg ctcgtttccg cgctcgcgcg taacacaatg atttaccttg ctggcggaac
120
gtcaacggac ccgcaaaagc gccttatgcc cctggcggag cgtggtgcaa aaaggagaaa
180
aaatacgcgt tatgaataac ggtacgctaa gcgttaagga aaagaacgat gactggaaag
240
ctatctccac gcgtcgggga ggcgcgatgat actgccgtca gccactatgt gtttgaagcg
300
ccggtacgcc tgtggcactg gctaacggtg gcc
333

<210> 10
<211> 19
<212> DNA
<213> Samonella typhimurium

<400> 10
cacggtttct tatcaacat
19

<210> 11
<211> 20
<212> DNA
<213> Samonella typhimurium

<400> 11
gtactcattg ccgacacatg
20

<210> 12
<211> 20
<212> DNA
<213> Samonella typhimurium

<400> 12
ccgggatggc ggttcgcttc
20

<210> 13
<211> 20
<212> DNA
<213> Samonella typhimurium

<400> 13
gcgtcggcaa tgatcaaag
20

<210> 14
<211> 21

<212> DNA
<213> Samonella typhimurium

<400> 14
cttatcgta atccgatacg c
21

<210> 15
<211> 20
<212> DNA
<213> Samonella typhimurium

<400> 15
ggccaccgtt agccagtgcc
20

<210> 16
<211> 24
<212> DNA
<213> Samonella typhimurium

<400> 16
gctctagaaa aaatacgcgt tatg
24

<210> 17
<211> 25
<212> DNA
<213> Samonella typhimurium

<400> 17
cccaagctta gcgtacctgg acggc
25

<210> 18
<211> 24
<212> DNA
<213> Helicobacter hepaticus

<400> 18
ttcgtggtat gaggataatc agcc
24

<210> 19
<211> 24
<212> DNA
<213> Helicobacter hepaticus

<400> 19
aataaagcac aactcccgtg agag
24

<210> 20
<211> 23
<212> DNA
<213> Helicobacter hepaticus

<400> 20
ggctagatac aagaatcgct aat
23

<210> 21
<211> 23
<212> DNA
<213> Helicobacter hepaticus

<400> 21
ctacctacta ccgcataatc aag
23